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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
07/376,378	07/07/89	LEMELSON	J

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EXAMINER

AL BRITTON, C  
ART UNIT PAPER NUMBER

216

DATE MAILED:

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

06/11/90

☒ This application has been examined ☐ Responsive to communication filed on \_\_\_\_\_ ☐ This action is made final.A shortened statutory period for response to this action is set to expire 3 month(s), \_\_\_\_\_ days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133**Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input checked="" type="checkbox"/> Notice re Patent Drawing, PTO-948.       |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449.                 | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474.     | 6. <input type="checkbox"/> _____   |

**Part II SUMMARY OF ACTION**

1. ☒ Claims 1-16 are pending in the application.  
Of the above, claims \_\_\_\_\_ are withdrawn from consideration.
2. ☐ Claims \_\_\_\_\_ have been cancelled.
3. ☐ Claims \_\_\_\_\_ are allowed.
4. ☒ Claims 1-19 are rejected.
5. ☐ Claims \_\_\_\_\_ are objected to.
6. ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice re Patent Drawing, PTO-948).
10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.
13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other

EXAMINER'S ACTION

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The present status of each application listed in the first paragraph of page 2 must be given.

Page 4, line 27, the spelling of "sectional" is indistinct in the specification.

Page 6, line 4, the spelling of "texts" is indistinct in the text.

Page 9, line 18, the fourth item in the line is indistinct. Page 15, last line, "housing" is indistinct.

Applicant should review the specification and make any changes of which he may become aware.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. 112, first paragraph, as indefinite because the operation of manipulator 47' is not clear. How are units of work removed or placed on table 41 by manipulator 47' located in or exteriorily of chambers 12? The description on page 6 fails to set forth an adequate written description of the device. On page 23, the location of the laser is confusing. Is chamber 11 the same as controller 11? Figure 1 is mute in this respect.

Claims 1-19 are rejected under 35 U.S.C. 112, first paragraph, for the reasons set forth in the above objection to the specification.

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Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1, line 17 is confusing. Is the radiation generated by the third means? Claim 11, lines 11, 15 and 16, the terms "automatically controlling" and "automatic manipulator" are not clear. They do not specify how or by what means controlling is performed; or, how or by what means manipulation is performed.

The above comments are applicable to claim 16, lines 17 and 18.

Robinson, Cohen, et al, Gorman and Dard, et al are cited to show machining apparatus similar to that claimed.

Any inquiry concerning this communication should be directed to C. L. Albritton at telephone number 703-557-4942.

Albritton/dmm

6/2/90

C. L. ALBRITTON  
PRIMARY EXAMINER  
ART UNIT 216